Serial No.: U.S. Nat'l. Stage of PCT/US2005/004176 Atty's Docket No.: WAA-348-PCT-US

Art Unit: Unknown Page 2

Inventor: Marc V. GORENSTEIN et al.

Amendments to the Specification:

Please replace the original Abstract with the following revised Abstract. A copy of the revised Abstract is also attached herewith.

---In complex separations, more than one entity may have the same molecular weight, to within the ability of <u>an</u> instrument to distinguish. Accurate mass measurements are used in light of the previously unknown regularities in retention time to determine a retention time $\frac{map 212}{(N \text{ pairs of values } (t_i^B, t_i^{B_{ref}})) (506)}$. The retention time map allows a reference retention time to be assigned to each entity in a separation. The reference retention times, together with accurate mass measurements, can then be used to track and to compare entities (704,708) between separations.--